

Cytotoxic properties of the complex of the antitumor antibiotic bleomycetin and *Bacillus intermedius* ribonuclease

Kalacheva N., Bulgakova R., Kazantseva N., Kurinenko B.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

It was shown possible to change the cytotoxic properties of the antitumor antibiotic bleomycetin by its binding to *Bacillus intermedius* RNase. The complexing lowered the antibiotic effect on DNA in the cells of the human amnion. At the same time the experiments with human red blood cells indicated that RNase of *B.intermedius* in complex with bleomycetin - Fe (II) increased the antibiotic capacity for the cell membrane break down.

Keywords

Bleomycetin, Ribonuclease of *Bacillus intermedius*